

21 Th. of August 2017

Restoring Iron age Fields in Western Jutland by burning and sheep grazing



the next 15 min

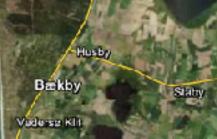
AGENDA

- What was starting point?
- What is history
- What is the aim of nature conservation?
- Ressources
- What did we do
- Results so far
- How can the project continue?



Øster Lem





Vederse

STED Lystbækgaard Ulfborg

10.010

🏆 Ruteplan 📟 Tog, Bus & Metro 🕑 Rejseplan

30 km from the owner Berit Kiilerich Lysbækgård

×

Vind

Aln m Grønbjerg 181 Ab Ida Hovvig Lodbjerg He te Hover Hee Sander Røjkirt Kloster Spjald Senderby Ostrup Breining Ma Gammelsogn Sendervig Ringkøbing Tyympae Opsund Videba **Heative** Ho meland Kirtby Finderup Velling Nørre Lyngvig Rapponer feit - Om Cookies COOV

Arceologic model photo Øster Lem Heath with ancient fields







Archeologist

- Tell us that fields found ind 1918
- bought privately and saved from ploughing in 1936
- The Forest agency ought to conserve the area since 1965
- our grazing group rented it for free



Experience with historical areas



WHICH TRACS ARE 700 BC?

- lots of different tracks
- You need strong feet! tracks are dangerous to sheep
- horse need to have good balance
- ATV would be nice if allowed
- I like to know exactly what is protected



- Increase Accessibility af the landscape
- Improve Biodiversity
- Avoid Growth of Threes
- Create Memorable experiences for the public

THE AIM IS





CHANGE THE BALANCE

MAKE NATURE SUSTAINABLE

- PURPLE MOOR GRASS =>HEATHER
- MOLINIA=>CALLUNA
- CROWBERRIES=> COWBERRIES
- EMPETRUM=> VACCINUM VITIS IDEA
- DEFEAT BIRCH and BRACKEN
- PROTECT ORCHIDS AND ARNICA
- ENJOY BOG BILBERRY (MYRICA GALE), TORMENTIL ETC.
- EAT WAVY HAIR GRASS (DESCHAMSISA)



PLANS UNTIL NOW

2 YEARS GONE, 2 LEFT

- first year national forrest burned 30 ha
- 2 years grazing from May to September 200-300 sheep
- 2 years left for grazing
- Hopefully smaller areas with empetrum and Molinia will Be burned
- Brackens? Eupteris aquilina (L. No plans yet







how do we get a nice cover of heathland here ?

Who is responsible Municipal? culture agency Environment agenzy??



Purple moor Grass



after burning 30th of march 2016



Purple moor Grass

after burning 30th of march 2016 tussocks not hurt



Purple moor Grass



SHEEP AND GOAT CONSULT



12th of may 2016



175 Ewes eating Molina 2017

Movie from 20th July





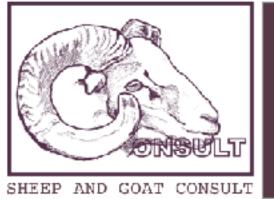
Budget

85 ha grazed by herded Ewes and Flex net fences	£
Shepherd Work hour dog and horses work 25 €/ hour 120 days / season 5 Hours/ day	15,000
Rent 2-300 Ewes to cover Shearing, transport and Winter supply	11,000
Fensce Watersupply throughs ie., solar Power	7,000
Costs first year	33,000

Uncertain income

AGRICULTURE agency pay

- a year after grazing is started
- 20,000 € if grazing is approved
- you have a great risk and longterm investment.





Prizes of Equipement

SHEEP AND GOAT CONSOL	per unit	units	€ in all
Netfence 50 meters with 14 sticks	100	32	3200
SOLAR POWER ENERGIZER	1000	1	1000
WATER CONTAINER	250	2	500
INVESTS for GRAZING- WANDER SHEPRHERD at WITHOUT FENCE			4700



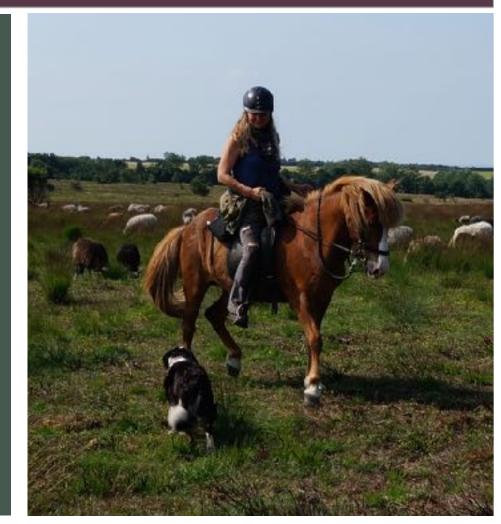
Funding of Grazing

	2016	2017	2018
PRIVATE NATURE FUND 15. JUNI FONDEN	13,333	13,333	?
DANISH AGRICULTURE AGENZY (EU)		20,000	20,000
EXPENCES	18,000	11,000	11,000
LEFT FOR shepherd SALERY and DRIVING	-4,667	+23,333	9000



OTHER COSTS

- HORSES, SHOES
- DOG, FEED FOR DOG
- TRANSPORT OF SHEPHERD TO THE
- MINERALS
- VET



YOU NEED EQUIPEMENT





FOR SORTING AND WEIGHING THE SHEEP



ENERGIZER

EQUIPEMENT



SOLAR POWER





SHEEP AND GOAT CONSULT

WORKS ALL YEAR



SOLAR ENERGY 1200 €







will cover large areas

Brackens





WE NEED TO MOVE THEM

BRACKENS NOT GRAZED





WE ONLY STEP ON THEM

BRACKENS ARE POISON



TREES PULLED OUT





NOT ALLOVED TO DRIVE IN THE PROTECTED FIELDS



WOOD IS PULLED OUT

AND CHOPPED

BIRCH IS A HUGE





SHEEP AND GOAT CONSULT

PROBLEM

BUT EWES EAT THE SMALL TRESS AND CLEAN THE BURNED AREAS



ESPECIALLY IF THEY USUALLY HAVE GRASS

EWES LOVE BIRCH



OLD HEATHER TURN





SHEEP AND GOAT CONSULT

TO BE DISPLAZED BY EMPETRUM



AFTER BURNING

FAST NEW HEATHER





HEATHER ONE YEAR

AFTER BURNING



HEATHER ONE YEAR





AFTER BURNING



RESULTS FIRST YEAR

- The first year after burning new heather plants are flowering. They are sprouting from old heather roots
- Ewes keep the Molinia tussock short and light come in

2016 GRAZED MOLINIA





SHEEP AND GOAT CONSULT

HELP NEW PLANTS TO GET LIGHT



OUTSIDE GRAZED 2016

INSIDE NOT

picture 19th April 2017



IF NOT GRAZED





SHEEP AND GOAT CONSULT

NO LIGHT



Results this 2nd year

- 2nd year tussocks of Molinia has become smaller
- Small seeds of heather plants and cowberries are germinating
- lots of Tormentil and poly gala vulgaris
- nice amounts of arnica montana and heath spottet orchid (Dactylorhiza Maculata)









idea to tell the iron age story



OTHER INCOME



WOOL FUR MEAT



SHOWS

OTHER INCOME









SHOWS







SHOWS

NEED ARRANGEMENT

THE SPECTATOR MUST





SHEEP AND GOAT CONSULT

COME TO THE SHEPHERD

LIVING LANDSCAPE





SHEEP AND GOAT CONSULT

BUT I AM THE ONLY SPECTATOR

Experience with wander shepherd



- shepherd shows the way
- Ewes go to the right places
- Especially in spring when you know what should be fed first
- nice with two night fences

Experience with wander shepherd



- Ewes with lamb are hungry
- They defend the dog and are difficult to move
- horse is so good if lamb is a ploblem
- Wolfs make selection for flock instinct



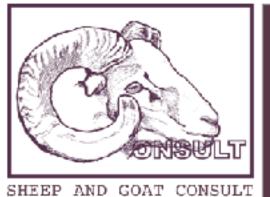




BUT VULNERABLE

THE MOTHER NEED MORE





FEED FOR TWO LAMB







controls the traffic

GPS from 9th august





SHEEP AND GOAT CONSULT

to tjeck where the ewes are and where they have grazed

GPS from 15th june





SHEEP AND GOAT CONSULT

to tjeck where the ewes are and where they have grazed



QUESTIONS

WHO KNOWS WHAT IS

- NUTRIENT CONTENT OF HEATH PLANTS IN DIFFERENT STAGES AND TIMES OF THE YEAR?
- LIMITS OF FEED CONSUMPTION AND DIGESTION FOR A SHEEP
- DO YOU KNOW?

EXPERIENCE MOVING NIGHT FENCES



WATERSUPPLY IMPORTANT

- You are not allowed to drive
- arrange a power wire around the fields
- 4-6ha fits 2-300 ewes for 3 weeks in Molinia fields
- 20-40 ha is ok after all is grazed once



FOR WATER



NETFENCE





SHEEP AND GOAT CONSULT

OPENINGS EVERY 50 METER



EASY FOR NO MACHINE AREAS 100€/ 50 METER

NET FENCE





YOU NEED A FORTUNE

TO MAKE NATURE CONSERVATION

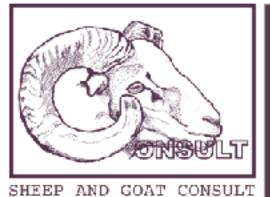
- WE NEED SHEPHERD EDUCATION
- EDUCATE SELF EMPLOYED PARTNERS IN A NETWORK
- WE SEARCH PARTNERES FOR ERASMUS +



SHEPHERD EDUCATION



WE NEED YOUNG PEOPLE



OLD PEOPLE Still have

A LOT TO LEARN





FUTURE?

LONGER CONTRACTS

- Educate shepherds
- accept that nature changes are slow
- we hope nice heath without trees will be the result
- but grazing is necessary to keep heath in balance



Thank you



hyrdetimer.dk